

INVITATION TO A GUEST LECTURE

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**“An Introduction to modelling and reconstruction in
Magnetic Particle Imaging”**

📍 V.1.08

📅 Thursday, 6 June 2019

🕒 10:30 a.m.

Abstract

In this talk, we give a short overview about Magnetic Particle Imaging, a quite recent biomedical imaging modality in which magnetic tracer particles can be tracked by their response to an external oscillating magnetic field. The imaging equations of this modality lead to a mathematically ill-posed inverse problem. We provide an analysis of this inverse problem in different imaging scenarios and describe some possibilities on how the reconstruction can be performed in an efficient way.

Christian Pötzsche and the Department of Mathematics look forward to seeing you at the talk!